JETEC TYPE DESIGNATION REGISTRATION FORM

ATR TUBE

Manufacturer's Designation: BL 650   April 12, 1957
JETEC Designation: 6890
Manufacturer: Bomac Laboratories, Inc.
                Beverly, Massachusetts

GENERAL CHARACTERISTICS

The 6890 is a broad band ATR tube designed to effectively decouple
the transmitting and receiving antenna during a non-transmitting
period designed to operate over a frequency range 9000 to 9600
megacycles per second.   To be used in half height RG-52/U size guide.

ELECTRICAL DATA - TYPICAL VALUES

Center Frequency	9300 Mc/s
Loaded Q (max.)	6. 5
Transmitter Peak Power (max.)	30 kw
Transmitter Peak Power (min)	0. 5 kw
Equivalent Conductance (max.)	0. 1
Tuning Susceptance (max.)	±0. 06
Arc Power Loss (max.)	1. 6 db
F=9300 mc; po=4. 0 kw;	
tp=0. 5 us; prr=1000 pps; TA=95 deg. C	
Recovery Time (max.)	8. 0 us
F=9300 Mc; po=5. 0 kw;	
tp=0. 5 us; prr 1000 pps	

MECHANICAL DATA - GENERAL

Mounting Position	Any
Weight, approximately	1. 25 ozs.

ABSOLUTE MAXIMUM RATINGS
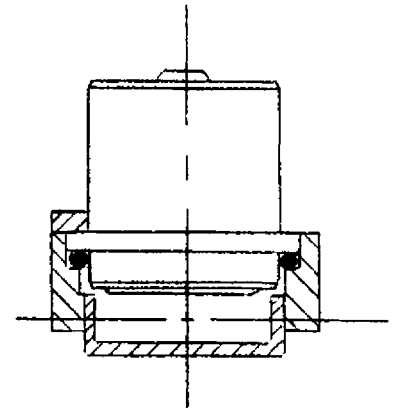
Transmitter Peak Power	30 kw
Transmitter Average Power	15 W

OUTLINE DRAWINGS

Outline per attached drawing dated 11-23-54
Mounting Seat per attached drawing dated 7-13-54

A

B

A

B
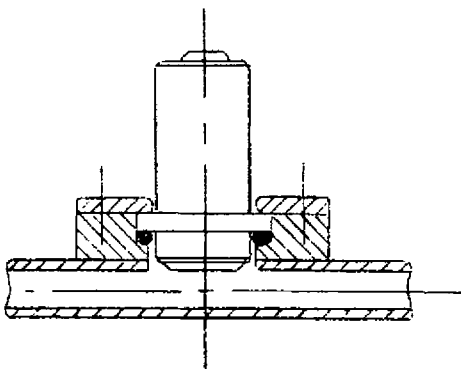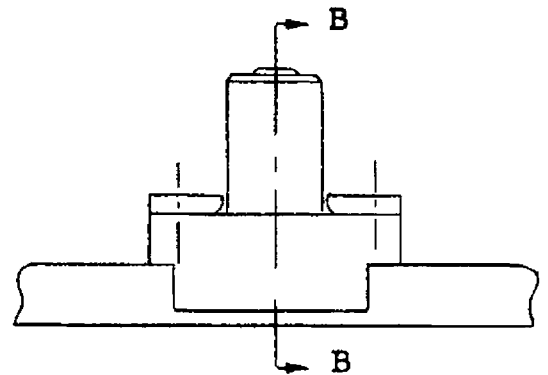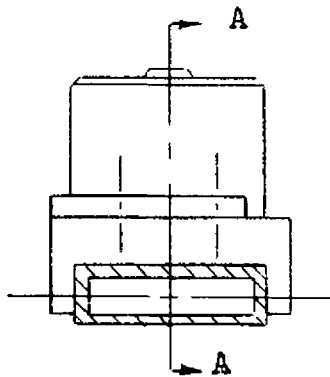
Section A-A of mount
showing tube in position

Section B-B of mount
showing tube in position

NOTES
1. Design of Holder optional
2. Tube held firmly in place by screw clamp
3. Bottom of tube is to be approx. flush
(±.004) with inside surface of waveguide.
4. Tube used with half height guide I.D. -
.200 ±.003 x .900 ±.003.

	SPECIFICATION SHEET	BOMAC LABORATORIES INC. SALEM ROAD BEVERLY, MASSACHUSETTS
GS-2E-1.10.30.14	TUBE SEAT MOUNTING 6890/BL-650, BL-77, 6396	7-13-54 R.R.
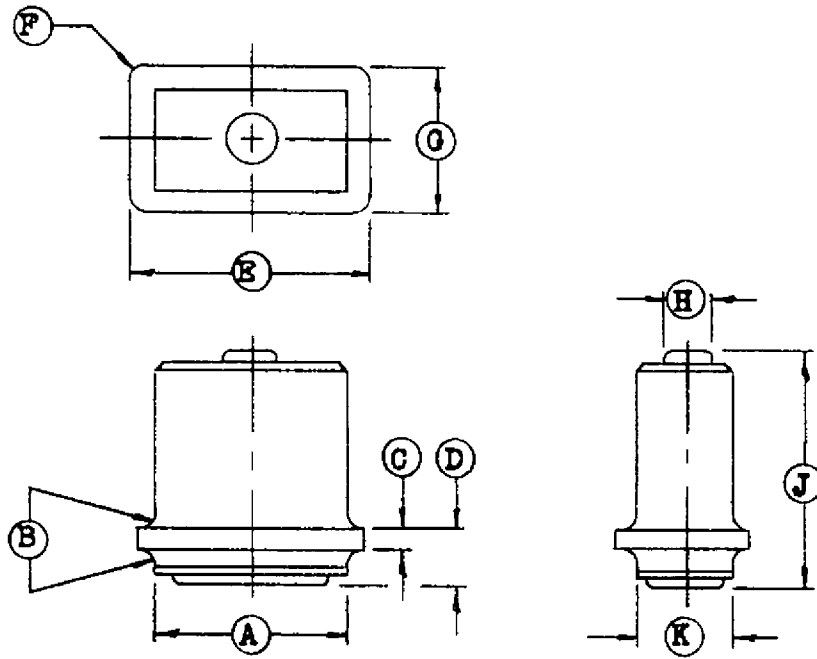
Ref.	Dimension
A	1.000
B**	0.030 Rad. Max.
C*	0.0965+.003-.002
D	0.279±.003
E	1.200±.003
F**	0.070-0.080 Rad.
G	0.700±.003
H**	0.250 Dia. Max.
J*	1.250 Max.
K	0.500

Outline used for following tubes:-

6369	BL- 68	BL- 77
6393	BL- 69	6890/BL-650
6396	BL- 70	
	BL- 76	

SPECIFICATION SHEET

Outline
See Note for Usage

11-23-54   clr